

**WEST**

## Freeform Search

**Database:**

US Patents Full-Text Database  
US Pre-Grant Publication Full-Text Database  
JPO Abstracts Database  
EPO Abstracts Database  
Derwent World Patents Index  
IBM Technical Disclosure Bulletins

**Term:**

L11 & L5

**Display:**  **Documents in Display Format:**  **Starting with Number** **Generate:** ☐ Hit List ☒ Hit Count ☐ Side by Side ☐ Image

### Search History

**DATE:** Tuesday, July 08, 2003 [Printable Copy](#) [Create Case](#)

**Set Name Query**  
side by side

**Hit Count Set Name**  
result set

*DB=USPT,PGPB,JPAB,EPAB,DWPI; PLUR=YES; OP=OR*

<u>L16</u>	L12 & L5	0	<u>L16</u>
<u>L15</u>	L11 & L5	12	<u>L15</u>
<u>L14</u>	L11 & L9	26	<u>L14</u>
<u>L13</u>	L12 & L9	0	<u>L13</u>
<u>L12</u>	L1 & L4	780	<u>L12</u>
<u>L11</u>	L1 & L3	3418	<u>L11</u>
<u>L10</u>	L9 & L6	0	<u>L10</u>
<u>L9</u>	actuat\$3 SAME (MEMS or MEMs) SAME chip\$1	408	<u>L9</u>
<u>L8</u>	L3 & L4 & L5	0	<u>L8</u>
<u>L7</u>	L6 & L5	0	<u>L7</u>
<u>L6</u>	L1 & L3 & L4	4	<u>L6</u>
<u>L5</u>	actuat\$3 SAME (MEMS or MEMs) SAME chip\$1 SAME integrat\$3	168	<u>L5</u>
<u>L4</u>	hinge\$1 SAME lock\$3 SAME latch\$3 SAME (rotat\$4 or pivot\$3)	3353	<u>L4</u>
<u>L3</u>	optical WITH (component\$1 or element\$1) WITH mov\$5	21091	<u>L3</u>
<u>L2</u>	actuat\$3 WITH MEMS WITH chip\$1 WITH integrat\$3	25	<u>L2</u>
<u>L1</u>	actuat\$3 WITH mov\$5	323259	<u>L1</u>

END OF SEARCH HISTORY

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**Search Results - Record(s) 1 through 10 of 12 returned.**☐ 1. Document ID: US 20030113067 A1

L15: Entry 1 of 12

File: PGPB

Jun 19, 2003

PGPUB-DOCUMENT-NUMBER: 20030113067

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030113067 A1

TITLE: Multifunctional intelligent optical modules based on planar lightwave circuits

PUBLICATION-DATE: June 19, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Koh, Seungug	Sunnyvale	CA	US	
Wu, Danjin	Sunnyvale	CA	US	

US-CL-CURRENT: 385/48; 385/24, 385/39, 385/49

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWC
Draw Desc	Image									

☐ 2. Document ID: US 20020105699 A1

L15: Entry 2 of 12

File: PGPB

Aug 8, 2002

PGPUB-DOCUMENT-NUMBER: 20020105699

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020105699 A1

TITLE: Integrated optical micro-electromechanical systems and methods of fabricating and operating the same

PUBLICATION-DATE: August 8, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Miracky, Robert F.	Cedar Park	TX	US	
Reed, Jason D.	W. Hartford	CT	US	
Hu, Kai	Farmingdale	NJ	US	
Hilbert, Claude	Austin	TX	US	

US-CL-CURRENT: 398/56; 359/315, 359/355, 372/103, 372/38.1, 385/14

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWC
Draw Desc	Image									

☐ 3. Document ID: US 20020076140 A1

L15: Entry 3 of 12

File: PGPB

Jun 20, 2002

PGPUB-DOCUMENT-NUMBER: 20020076140  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20020076140 A1

TITLE: MEMS optical switch with pneumatic actuation

PUBLICATION-DATE: June 20, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Kobrin, Boris	San Francisco	CA	US	

US-CL-CURRENT: 385/18

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWC
Draw Desc	Image									

☐ 4. Document ID: US 20020076139 A1

L15: Entry 4 of 12

File: PGPB

Jun 20, 2002

PGPUB-DOCUMENT-NUMBER: 20020076139  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20020076139 A1

TITLE: MEMS optical switch with acoustic pulse actuation

PUBLICATION-DATE: June 20, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Kobrin, Boris	San Francisco	CA	US	

US-CL-CURRENT: 385/18

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWC
Draw Desc	Image									

☐ 5. Document ID: US 20020009256 A1

L15: Entry 5 of 12

File: PGPB

Jan 24, 2002

PGPUB-DOCUMENT-NUMBER: 20020009256  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20020009256 A1

TITLE: Variable optical attenuator and beam splitter

PUBLICATION-DATE: January 24, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Chertkow, Igal	Ashdod		IL	
Patlakh, Anatoly	Holon		IL	
Messica, Avi	Tel Mond		IL	

US-CL-CURRENT: 385/18; 385/140

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	RWC
Draw Desc	Image									

☐ 6. Document ID: US 6535663 B1

L15: Entry 6 of 12

File: USPT

Mar 18, 2003

US-PAT-NO: 6535663

DOCUMENT-IDENTIFIER: US 6535663 B1

TITLE: Microelectromechanical device with moving element

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	RWC
Draw Desc	Image									

☐ 7. Document ID: US 6522441 B1

L15: Entry 7 of 12

File: USPT

Feb 18, 2003

US-PAT-NO: 6522441

DOCUMENT-IDENTIFIER: US 6522441 B1

TITLE: Micro-optical system for an auto-focus scanner having an improved depth of field

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	RWC
Draw Desc	Image									

☐ 8. Document ID: US 6363183 B1

L15: Entry 8 of 12

File: USPT

Mar 26, 2002

US-PAT-NO: 6363183

DOCUMENT-IDENTIFIER: US 6363183 B1

TITLE: Reconfigurable and scalable intergrated optic waveguide add/drop multiplexing element using micro-opto-electro-mechanical systems and methods of fabricating thereof

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	RWC
Draw Desc	Image									

☐ 9. Document ID: US 6321654 B1

L15: Entry 9 of 12

File: USPT

Nov 27, 2001

US-PAT-NO: 6321654

DOCUMENT-IDENTIFIER: US 6321654 B1

TITLE: Microelectromechanical systems (MEMS) -type devices having latch release and output mechanisms

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

KMC

☐ 10. Document ID: US 5995688 A

L15: Entry 10 of 12

File: USPT

Nov 30, 1999

US-PAT-NO: 5995688

DOCUMENT-IDENTIFIER: US 5995688 A

TITLE: Micro-opto-electromechanical devices and method therefor

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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**Search Results - Record(s) 1 through 4 of 4 returned.**☐ 1. Document ID: US 4949126 A

L6: Entry 1 of 4

File: USPT

Aug 14, 1990

US-PAT-NO: 4949126

DOCUMENT-IDENTIFIER: US 4949126 A

TITLE: Optical reproduction apparatus and improved bellows therefor

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC
Draw Desc	Image										

☐ 2. Document ID: US 3774516 A

L6: Entry 2 of 4

File: USPT

Nov 27, 1973

US-PAT-NO: 3774516

DOCUMENT-IDENTIFIER: US 3774516 A

TITLE: PHOTOGRAPHIC CONTROL SYSTEM AND APPARATUS HAVING SELF-MONITORING FEATURES

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWIC
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☐ 3. Document ID: US 3760701 A

L6: Entry 3 of 4

File: USPT

Sep 25, 1973

US-PAT-NO: 3760701

DOCUMENT-IDENTIFIER: US 3760701 A

TITLE: PHOTOGRAPHIC APPARATUS WITH DELAYED INTERLOCK SWITCH

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWIC
Draw Desc	Image									

☐ 4. Document ID: US 3750551 A

L6: Entry 4 of 4

File: USPT

Aug 7, 1973

US-PAT-NO: 3750551

DOCUMENT-IDENTIFIER: US 3750551 A

TITLE: PHOTOGRAPHIC APPARATUS AND SYSTEM WITH AUTOMATIC FILM COVER EJECTION

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWIC
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